

In the Claims

1. (Currently amended) A controller comprising at least one Home Audio Visual Initiative (HAVi) server that communicates with at least one HAVi compliant device using a HAVi application programming interface (API) and further communicates with at least one proxy on at least one Internet Protocol (IP) device using an IP and HAVi API, the server communicating with the IP device via the Internet protocol, the IP and HAVi API providing API support to translate and relay calls between the proxy and the server so that each one of the at least one HAVi compliant device and the IP device controls the other one of the devices.
2. (Cancelled)
3. (Previously amended) The controller as set forth in claim 1 further comprising an IP device control module (DCM), wherein the at least one HAVi compliant device controls the IP device by accessing a DCM associated with the IP device.
4. (Previously amended) The controller as set forth in claim 1, wherein the HAVi compliant device is physically located on the controller.
5. (Previously amended) The controller as set forth in claim 3, further comprising a HAVi stack that enables the IP device DCM to be instantiated independently of bus reset events.
6. (Previously amended) The controller as set forth in claim 1, wherein the server communicates with IP devices across a first communication medium and HAVi compliant devices across a second communication medium.
7. (Original) The controller as set forth in claim 6, wherein the first communication medium is selected from the group consisting of fiber, optical, cable, wire and wireless networks.

8. (Original) The controller as set forth in claim 5, wherein the second communication medium is an IEEE 1394 network.

9. (Previously amended) The controller as set forth in claim 1, further comprising a stream bridge configured to capture content from a first device of IP and HAVi compliant devices coupled to the controller and relay it to a second device of IP and HAVi compliant devices.

10. (Previously amended) The controller as set forth in claim 1, wherein the controller is selected from the group consisting of a HAVi full audio/visual device and an intermediate audio/visual device.

11-18. (Cancelled)

19. (Currently amended) The Internet Protocol network device as set forth in claim-15 ~~46~~, ~~further comprising streaming~~ wherein content is streamed between the Internet Protocol network device and the home audio/video network controller.

20-24. (Cancelled)

25. (Currently amended) A method of integrating an Internet Protocol (IP) device into a Home Audio Visual Initiative (HAVi) network comprising:

coupling at least one IP device to a first HAVi compliant device acting as a controller, the IP device coupled to the first HAVi compliant device through a connection using the Internet protocol, the IP device including a proxy that communicates with a server on the controller;

accessing an IP and HAVi application programming interface (API) and the proxy on the IP device to translate and relay information to a server on the first HAVi compliant device; and

controlling each one of the IP device and a second HAVi compliant device by the other one of the devices through the proxy.

26. (Previously amended) The method as set forth in claim 25 further comprising instantiating an IP device control module (IP device DCM) on the controller corresponding to the IP device, wherein the IP device DCM is instantiated independently of bus reset events.

27. (Original) The method as set forth in claim 25, wherein the second HAVi compliant device is selected from the group consisting of the first HAVi compliant device and a device coupled to the first HAVi compliant device through a network.

28. (Previously amended) The method as set forth in claim 25, further comprising streaming data between the IP device and the controller.

29. (Currently amended) A method of integrating an second- Internet protocol network compliant device into a first- home audio/video network comprising:

coupling at least one second network compliant device an Internet Protocol network device to a first network compliant device home audio/video network device acting as a controller, the second network compliant device Internet Protocol network device coupled to the first network compliant device home audio/video network device through a connection using an second network- Internet pProtocol, the second network compliant device Internet Protocol network device including a proxy that communicates with a server on the controller;

accessing an first and second network application programming interface (API) and proxy on the second network compliant device Internet Protocol network device to translate and relay information to the server on the first network compliant device, the application programming interface compliant with a dedicated home audio/video network protocol and the Internet Protocol; and

controlling each one of a different first network compliant device home audio/video network device and the second network compliant device Internet Protocol network device by the other of the devices through the proxy .

30-32. (Cancelled)

33. (Currently amended) A system for integrating an Internet Protocol (IP) device into a Home Audio Visual Initiative (HAVi) network comprising:

means for coupling at least one IP device to a first HAVi compliant device acting as a controller, the IP device coupled to the first HAVi compliant device through a connection using the Internet protocol, the IP device including a proxy that communicates with a server on the controller;

means for accessing an IP and HAVi application programming interface (API) on the IP device to translate and relay information to the first HAVi compliant device; and

means for coupling a second HAVi compliant device to the HAVi network, wherein each one of the second HAVi compliant device and the IP device controls the other one of the devices.

34. (Cancelled)

35. (Previously amended) The system as set forth in claim 33 further comprising means for instantiating an IP device control module (IP device DCM) on the controller corresponding to the IP device, wherein at least one HAVi compliant device controls the IP device by accessing a DCM corresponding to the IP device.

36. (Previously amended) The system as set forth in claim 35, wherein the IP device DCM is instantiated independently of bus reset events.

37. (Previously amended) The system as set forth in claim 33, further comprising means for streaming data between the IP device and the controller.

38. (Currently amended) The home audio/video network controller as set forth in claim 11 ~~45~~ further comprising a device control module (~~DCM~~) corresponding to the ~~second~~ Internet Protocol network compliant device, wherein the ~~first~~ home audio/video network

~~compliant~~ device controls the ~~second~~ Internet Protocol network compliant device by accessing the ~~DCM~~ device control module.

39. (Currently amended) The home audio/video network controller as set forth in claim ~~44~~ 45, wherein the ~~first and second~~ home audio/video and Internet Protocol network compliant devices communicate through mediums selected from the group consisting of fiber, optical, cable, wire and wireless networks.

40. (Currently amended) The home audio/video network controller as set forth in claim ~~44~~ 45 further comprising a stream bridge configured to capture content from one of the ~~first and second~~ home audio/video and Internet Protocol network compliant devices and relay it to the other one of the devices.

41. (Currently amended) The method as set forth in claim 29 further comprising instantiating a device control module (~~DCM~~) on the controller, the DCM corresponding to the ~~second~~ Internet Protocol network compliant device, wherein one of the ~~first~~ home audio/video network compliant devices controls the ~~second~~ Internet Protocol network compliant device by accessing the ~~DCM~~ device control module.

42. (Currently amended) The method as set forth in claim 29, wherein the ~~first~~ home audio/video network and ~~second network compliant~~ Internet Protocol network devices communicate through mediums selected from the group consisting of fiber, optical, cable, wire and wireless networks.

43. (Currently amended) The ~~controller~~ method as set forth in claim 29, further comprising providing a stream bridge configured to capture content from one of the different ~~first~~ home audio/video network and ~~second network compliant~~ Internet Protocol network devices and relay it to the other one of the devices.

44. (New) A home audio/video network comprising:

- a controller comprising a server and a first application program interface that is compliant with a dedicated home audio/video network protocol;

- a home network device coupled to the controller, the home network device comprising a second application program interface compliant with the dedicated home audio/video network protocol, wherein the second application program interface is operable to communicate commands between a program executing on the home network device and the server through the first application program interface; and

- an Internet Protocol network device coupled to the controller, the Internet Protocol network device comprising a proxy and a third application program interface that is compliant with the dedicated home audio/video network protocol and with an Internet Protocol, wherein the third application program interface is operable to translate and relay commands between the server and the proxy, and is further operable to translate and relay commands between the proxy and a program executing on the Internet Protocol network device to allow the home and Internet Protocol network devices to control each other.

45. (New) A home audio/video network controller comprising:

- a server and a first application program interface compliant with a dedicated home audio/video network protocol,

- wherein the first application program interface is operable to communicate commands between the server and a program executing on a home network device through a second application program interface that is resident on the home network device and compliant with the dedicated home audio/video network protocol, and

- wherein the server is operable to communicate commands to and from an Internet Protocol network device through a proxy and a third application program interface that are resident on the Internet Protocol network device, the third application program interface compliant with the dedicated home audio/video network protocol and with an Internet Protocol, wherein the third application program interface translates and relays commands between the server and the proxy and further translates and relays

commands between the proxy and a program executing on the Internet Protocol network device to allow the home and Internet Protocol network devices to control each other.

46. (New) An Internet Protocol network device comprising:

a proxy and a first application program interface compliant with a dedicated home audio/video network protocol and with an Internet Protocol,

wherein the first application program interface is operable to translate and relay commands between the proxy and a program executing on the Internet Protocol network device, and

wherein the first application program interface is further operable to translate and relay commands between the proxy and a server coupled to a home network device to allow the Internet Protocol network device and the home network device to control each other, the server resident in a home audio/video network controller that includes a second program interface to communicate commands between a program executing on the home network device and the server.